

Appl. No. 10/500,504

Amdt. dated Feb. 15, 2006

Reply to Office action mailed Nov. 22, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A video projection system comprising at least ~~start itemization here~~ a light source coupled to a reflector configured to ~~for concentrateing~~ the light into a beam,

- a motor-driven color wheel positioned to receive the beam, the motor-driven color wheel having ~~(1) which has a~~ plurality of light-transmitting segments ~~(2)~~, at least some of said segments ~~(2)~~ being dichroic filters for the colors red, green, and blue, the color wheel being rotatable and having a ~~whose speed of rotation can be modifiableed~~ by a control,
- a lens system ~~which~~ configured to images the ~~focused light~~ beam onto a display,
- a display system comprising at least the ~~a~~ display and a display control, and

Appl. No. 10/500,504

Amdt. dated Feb. 15, 2006

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- a projection lens ~~and itemization here~~ positioned to receive the beam from the display,

wherein said video projection system has not only a video projection mode but also a lighting mode, and

wherein the video projection system comprises means for rendering characterized in that in that the color wheel

~~(1) is stationary in the lighting mode, and with at~~

least one segment ~~(2) of the color wheel (1) can be~~

given at a defined position in the beam path, when the video projection system is in the lighting mode.

Claim 2 (currently amended): The A-video projection system as ~~claimed in~~ claim 1, characterized in that wherein the display is configured to display a video sequence of images ~~can be imaged on the display when the video projection system is~~ in the lighting mode.

Claim 3 (currently amended): A-The video projection system as ~~claimed in~~ claim 1, wherein characterized in that the color wheel ~~(1)~~ can be positioned in the lighting mode such that the ~~focused light beam from the reflector~~ is incident on one or on two dichroic filters of the color wheel ~~(1)~~.

Appl. No. 10/500,504

Amdt. dated Feb. 15, 2006

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Claim 4 (currently amended): ~~A-The~~ video projection system ~~as claimed inof~~ claim 1, wherein characterized in that the color wheel ~~(1)~~ has at least one transparent segment ~~(2)~~.

Claim 5 (currently amended): ~~A-The~~ video projection system ~~as claimed inof~~ claim 1, wherein characterized in that the color wheel ~~(1)~~ has eight segments ~~(2)~~, of which six segments ~~(2)~~ are dichroic filters for red (R), green (G), and blue (B), and two segments ~~(12)~~ are transparent (W), which eight segments ~~(2)~~ are arranged directly next to one another along the circumference of the color wheel ~~(1)~~ in the sequence: red (R), green (G), blue (B), transparent (W), green (G), red (R), blue (B), and transparent (W).

Claim 6 (currently amended): ~~A-The~~ video projection system ~~as claimed inof~~ claim 1, wherein characterized in that the means for rendering the color wheel stationary comprises at least one ~~(1) can be given a defined position by means~~ of a detection arrangement, an

Appl. No. 10/500,504

Amdt. dated Feb. 15, 2006

Reply to Office action mailed Nov. 22, 2006

electronically commutated motor, ~~and/or~~ sensors for color measurement.

Claim 7 (currently amended): ~~A-The~~ video projection system ~~as claimed in~~ of claim 1, ~~characterized in that wherein~~ an integrating rod is arranged in the beam between the color wheel-(1) and the lens system.

Claim 8 (currently amended): ~~A-The~~ video projection system ~~as claimed in~~ of claim 1, ~~characterized in that wherein~~ a lithographically structured dichroic filter is arranged on the color wheel-(1).

Claim 9 (currently amended): ~~A-The~~ video projection system ~~as claimed in~~ of claim 1, ~~characterized in that wherein~~ at least a second color wheel-(1) is positioned in the beam.

Claim 10 (currently amended): ~~A-The~~ video projection system ~~as claimed in~~ of claim 1, ~~characterized in that wherein~~ dichroic filters for red, green, and blue are arranged on one color wheel-(1) or on several color wheels-(1) such that overall each of these three colors

Appl. No. 10/500,504

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is arranged directly next to one of the two other colors at least once, and ~~in addition~~ each of these three colors is arranged next to a transparent segment ~~(2)~~ at least once.

Claim 11 (currently amended): ~~A~~ The video projection system ~~as claimed in~~ of claim 1, characterized in ~~that~~ wherein the projection system is configured for ~~can~~ be used as a spotlight.

Claim 12 (new): A video projection system comprising at least a light source coupled to means for concentrating light from the light source into a beam,

- a motor-driven color wheel positioned to receive the beam, the motor-driven color wheel having a plurality of light-transmitting segments, at least some of said segments being dichroic filters for colors, the color wheel being rotatable and having a rotation modifiable by a control,
- a lens system configured to image the beam onto a display,
- a display system comprising at least the display and a display control, and

Appl. No. 10/500,504

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Reply to Office action mailed Nov. 22, 2006

- a projection lens positioned to receive the beam from the display,  
wherein said video projection system has not only a video projection mode but also a lighting mode, and  
wherein the video projection system comprises means for rendering the color wheel stationary with at least one segment of the color wheel) at a defined position in the beam path, when the video projection system is in the lighting mode.

Claim 13 (new): The video projection system of claim 12, wherein the means for concentrating light is a reflector.

Claim 14 (new): The video projection system of claim 12, wherein the means for concentrating light is a convergent lens.